

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF NEW ADA RAMPS WITH APS/CPS PEDESTRIAN TRAFFIC SIGNAL EQUIPMENT AND THE INSTALLATION OF A NEW BASE MOUNTED CABINET AT THE INTERSECTION OF MD 414 AND MIDDLE ENTRANCE TO RIVERTOWNE SHOPPING CENTER IN PRINCE GEORGE'S COUNTY. MD 414 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR EASTBOUND MD 414. MD 414 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH A CONCURRENT PEDESTRIAN MOVEMENT TO CROSS THE SHOPPING CENTER ENTRANCE. THE SHOPPING CENTER ENTRANCE THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XX4495185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9042	1	EA	[UPDATED] CONTROLLER ASC II WITH TELEMETRY
9044	1	EA	[UPDATED] CONTROLLER CABINET, SIZE 6
9086	1	EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9570	4	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	4	EA	R10-3(1) (9" X 15") GROUND MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
1002	770	LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH
2001	1.8	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5001	25	LF	5 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5002	335	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5003	85	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
6001	260	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	980	SF	5 INCH CONCRETE SIDEWALK
8001	30	EA	12 INCH (R, Y, G) LED SIGNAL HEAD
8003	1	EA	2 WIRE CENTRAL CONTROL UNIT
8007	3	EA	8 INCH (R, Y, G) LED SIGNAL HEAD
8009	3	EA	ADJUST HANDHOLE TO GRADE
8010	4	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8011	4	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8013	1	EA	EMBEDDED METERED SERVICE PEDESTAL
8014	1	EA	LED 16 INCH COUNTDOWN PEDESTRIAN HEAD
8016	1	EA	REMOVE & DISPOSE OF EQUIPMENT PER ASSIGNMENT
8022	1090	LF	DISCONNECT, PULL-BACK & REROUTE CABLE
8027	85	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8028	60	SF	DETECTABLE WARNING SURFACES
8033	85	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8039	50	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8044	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8045	4	SF	INSTALL GROUND MOUNTED SIGN
8047	4	EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT
8055	405	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8057	545	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8058	880	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8066	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
NEG	135	LF	1-CONDUCTOR ELECTRICAL CABLE, NO. 2 AWG/THHN
NEG	10	LF	5 INCH YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS

CONTACTS

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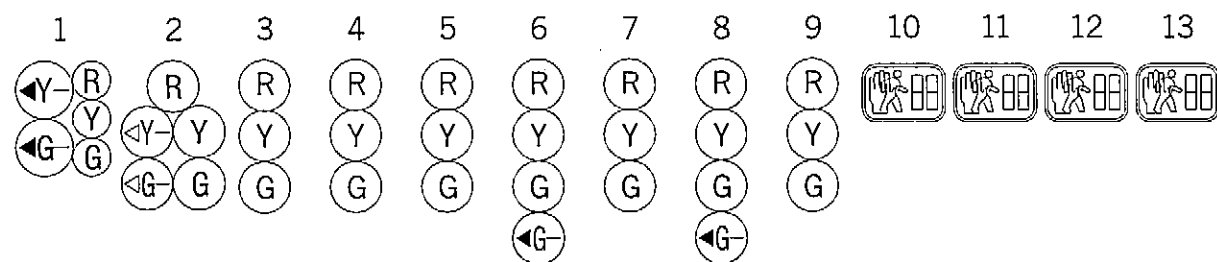
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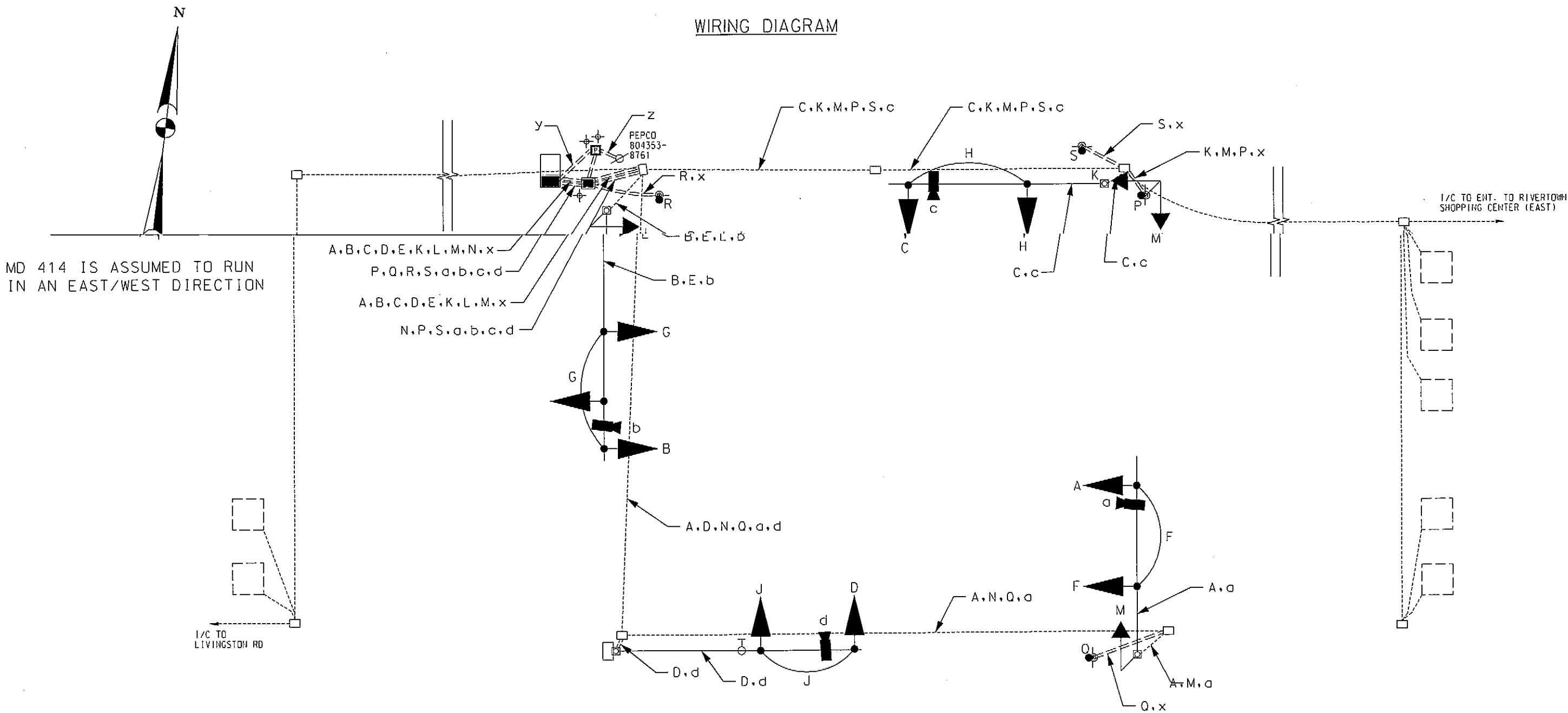
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PHASE CHART



PHASE 1 AND 6	<GG	<GG	G	R	R	R	R	R	R	DW	DW	DW	DW	
1 AND 6 CHANGE	<YG	<YG	G	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	WK	WK	DW	DW	
PED CLEARANCE	G	G	G	G	G	R	R	R	R	FLDW	FLDW	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	
PHASE 3	R	R	R	R	R	<GG	G	R	R	DW	DW	WK	WK	
PED CLEARANCE	R	R	R	R	R	<GG	G	R	R	DW	DW	FLDW	FLDW	
3 CHANGE	R	R	R	R	R	Y	Y	R	R	DW	DW	DW	DW	
PHASE 4	R	R	R	R	R	R	R	<GG	G	DW	DW	DW	DW	
4 CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	

WIRING DIAGRAM

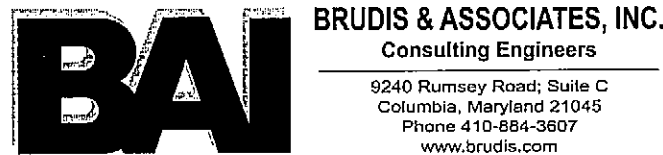


WIRING KEY

- A, B, C, D, E } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- F, G, H, J, K, L, M, N } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- P, Q, R, S } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- a, b, c, d } VIDEO CAMERA CABLE
- x } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- y } 3 WIRES, 1 CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG THHN/THWN)
- z } 3 WIRES, 1 CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG/THHN)
- + } GROUND ROD

NOTES:

- ALL EXISTING WIRING EXCEPT FOR I/C AND SYSTEM DETECTION WILL BE REMOVED. CONTRACTOR SHALL DISCONNECT, PULL BACK AND REROUTE THE EXISTING INTERCONNECT CABLES AND SYSTEM LOOP CABLES TO THE NEW SIGNAL CABINET.
- CONNECT COPPER GROUND WIRE TO NEAREST EXISTING GROUND ROD.
- THE CONTRACTOR WILL "WORK WITH" PEPCO ON THE INSTALLATION OF THE 3 WIRES, 1 CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG/THHN). IT HAS BEEN ASSUMED THAT DURING THE "WORK WITH" ADDITIONAL CABLE WILL BE COILED AND ATTACHED (TO THE WOOD POLE) TO PEPCO STANDARDS.



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 414 AT MIDDLE ENT. TO RIVERTOWNE SHOPPING CENTER
OXON HILL, MD

GENERAL INFORMATION PLAN SHEET

SCALE: NTS DATE: 12/2010 CONTRACT NO.: XX4495185

DESIGNED BY: XM COUNTY: PRINCE GEORGE'S
DRAWN BY: XM LOGMILE: 16041401.44
CHECKED BY: JB TMS NO.: K282
F.A.P. NO.: TOD NO.:

TS NO. 2097B DRAWING - OF SHEET NO. 3 OF 3